



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

**RB 92700-10356-041-PO**  
**Job Sheet 185628**



**Part No:** RB 92700-10356-041-PO

**Job Qty:** 3 ea

**Part Name:** Bearing Alignment Tool



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 10/31/18

**Job Tracking No:**

**Due Date:** 12/14/18

**Created By:** Patrick Lussier

**Type:** Stock

**Description:**

**Note:** DWG RB 92700-10356-041 Rev.A IPP Rev. A 18.10.29 New issue DP Verify DD

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation  | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off    |
|-------|------------|-------|------------|----------|-----------|---------|-----------------------|-----------|-------------|
|       |            |       |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |             |
| 100   | Purchasing | 3 pcs |            | 12/14/18 | 0.00      | 0.00    | Purchasing            |           | DEC 20 2018 |
| 110   | Packaging  | 3 pcs |            | 12/14/18 | 0.00      | 0.00    | Packaging2            |           | DEC 20 2018 |
| 120   | QC         | 3 pcs |            | 12/14/18 | 0.00      | 0.00    | QC6                   |           | 38          |
| 130   | Small Fab  | 3 pcs |            | 12/14/18 | 0.00      | 0.30    | Small Fab-2           | N/A       | 9-89        |
| 140   | QC         | 3 pcs |            | 12/14/18 | 0.00      | 0.00    | QC5                   | 38        |             |
| 150   | Packaging  | 3 pcs |            | 12/14/18 | 0.00      | 0.00    | Packaging3            | 9-89      |             |
| 160   | QC21-FG    | 3 Ea  |            | 12/14/18 | 0.00      | 0.00    | QC21                  |           | DEC 21 2018 |

Part Op 100 - Issue P/O: MANUFACTURE RB 92700-10356-041 AS PER DWG Supplier: ARROW TECH MACHINE  
Descriptions: WORKS -Certificate of conformity is required

130 - Re-identify as required.

GA156

### Job BOM

| Part / Item         | Component Name         | Quantity    | Operation      | Container |
|---------------------|------------------------|-------------|----------------|-----------|
| RB 92700-10356-041P | Bearing Alignment Tool | 3 Ea (1 ea) | 100-Purchasing | 5139165   |

### Job Allocations

| Operation      | Component Part      | Required | Inventory | Allocated |
|----------------|---------------------|----------|-----------|-----------|
| 100-Purchasing | RB 92700-10356-041P | 3        | 0         | 0         |

### Part Specifications



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
CANADA  
TEL: 1 613 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

not be found.

Plex 10/31/18 9:00 AM dart.Lussier.Patrick

Container No: S139166



Part: RB 92700-10356-041

Job No: 185628

Serial No/Batch: S139166

Revision: A

Inspector:

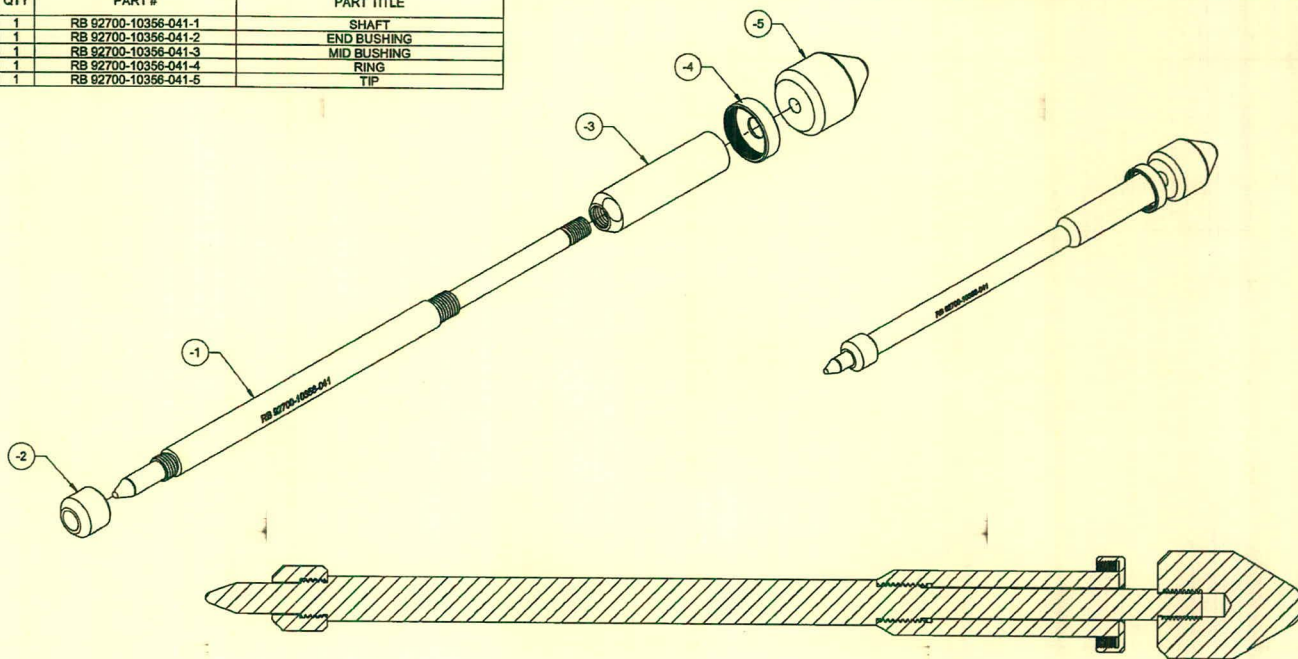
Exp Date:

Instructions:

Date: 12/20/18

DEC 3 1938  
DEC 3 1938

| ITEM # | QTY | PART #               | PART TITLE  |
|--------|-----|----------------------|-------------|
| -1     | 1   | RB 92700-10356-041-1 | SHAFT       |
| -2     | 1   | RB 92700-10356-041-2 | END BUSHING |
| -3     | 1   | RB 92700-10356-041-3 | MID BUSHING |
| -4     | 1   | RB 92700-10356-041-4 | RING        |
| -5     | 1   | RB 92700-10356-041-5 | TIP         |



RB 92700-10356-041 BEARING ALIGNMENT TOOL

NOTES:

1) MATERIAL: N/A  
2) HEAT TREAT: N/A  
3) FINISH: N/A

4) TOLERANCES: X.X =  $\pm 0.1"$  /  $\pm 1"$   
X.XX =  $\pm 0.01"$  /  $\pm 0.5"$   
X.XXX =  $\pm 0.005"$  /  $\pm 0.1"$   
X.XXXX =  $\pm 0.0005"$  /  $\pm 0.05"$

5) UNITS: INCHES UNLESS OTHERWISE NOTED  
6) BREAK SHARP EDGES: N/A  
7) IDENTIFICATION: N/A  
8) ASSEMBLE AS SHOWN HAND TIGHT

|            |             |        |    |
|------------|-------------|--------|----|
| A          | NEW ISSUE   | 18-606 | VM |
| REV.       | DESCRIPTION | ECN #  | BY |
| DESIGN     | VM          |        |    |
| DRAWN      | VM          |        |    |
| CHECKED    | DP          |        |    |
| MFG. APPR. | DP          |        |    |
| APPROVED   | DP          |        |    |
| DATE       | 5/30/2018   |        |    |

DART AEROSPACE LTD  
HAWKESBURY, ONTARIO, CANADA

TOOL PART #  
RB 92700-10356-041

REV. A  
SHEET 1 OF 6

TITLE  
BEARING ALIGNMENT TOOL

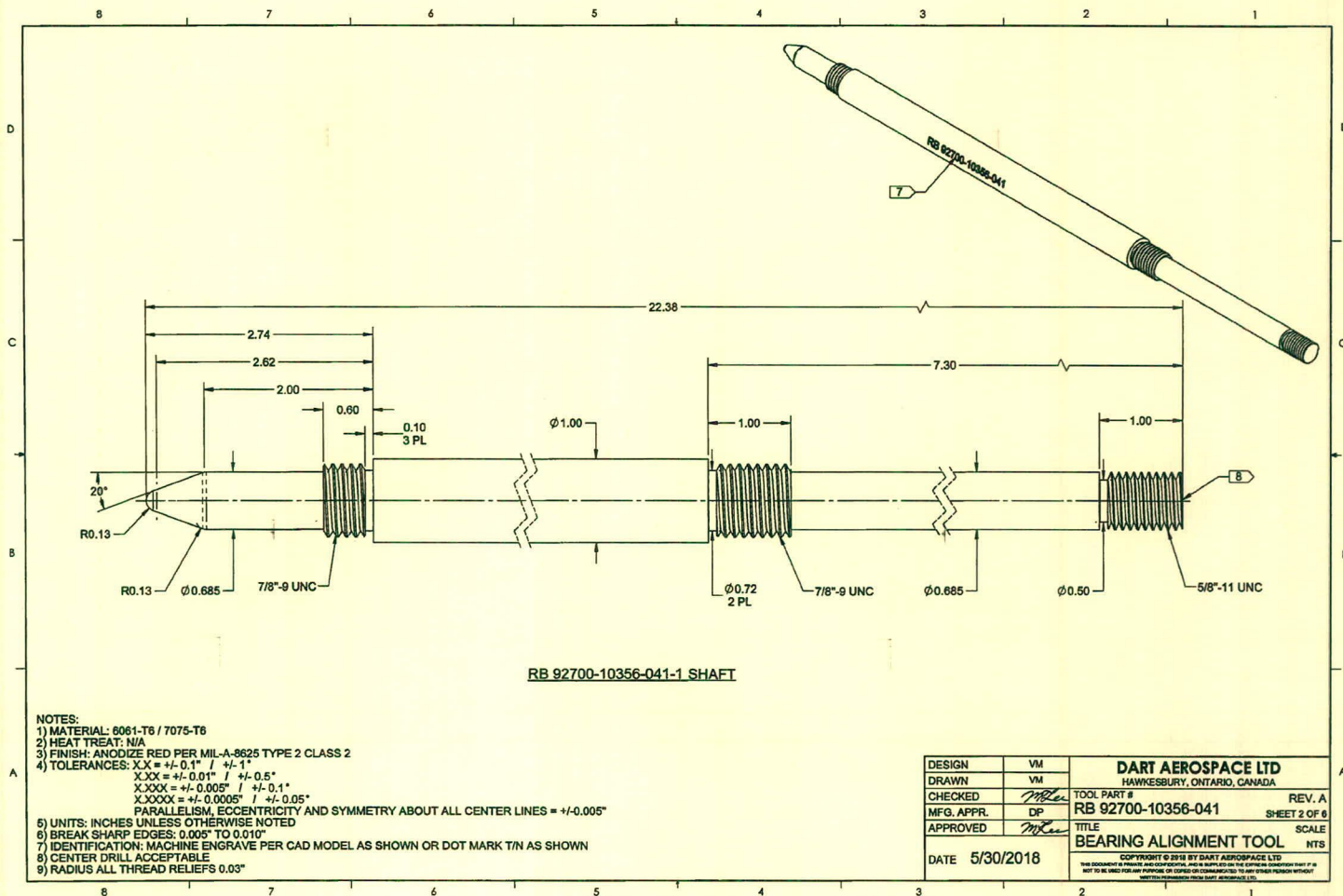
SCALE  
NTS

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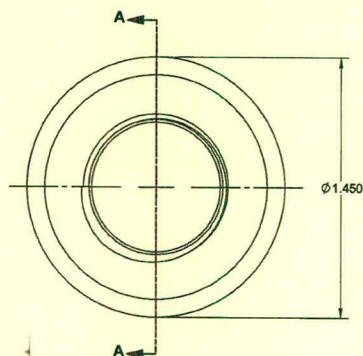




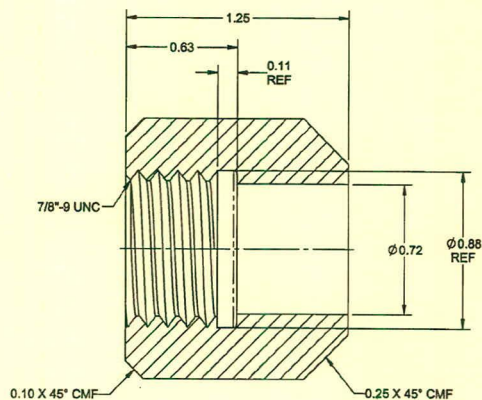




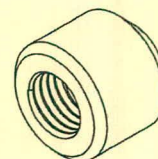




RB 92700-10356-041-2 END BUSHING



SECTION A-A



NOTES:

1) MATERIAL: BLACK DELRIN / ACETAL ASTM D6100 / NYLON 6 (BLACK)

2) HEAT TREAT: N/A

3) FINISH: N/A

4) TOLERANCES: X.X =  $\pm 0.1"$  /  $\pm 1^\circ$

X.XX =  $\pm 0.01"$  /  $\pm 0.5^\circ$

X.XXX =  $\pm 0.005"$  /  $\pm 0.1^\circ$

X.XXXX =  $\pm 0.0005"$  /  $\pm 0.05^\circ$

PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES =  $\pm 0.005"$

5) UNITS: INCHES UNLESS OTHERWISE NOTED

6) BREAK SHARP EDGES: 0.005" TO 0.010"

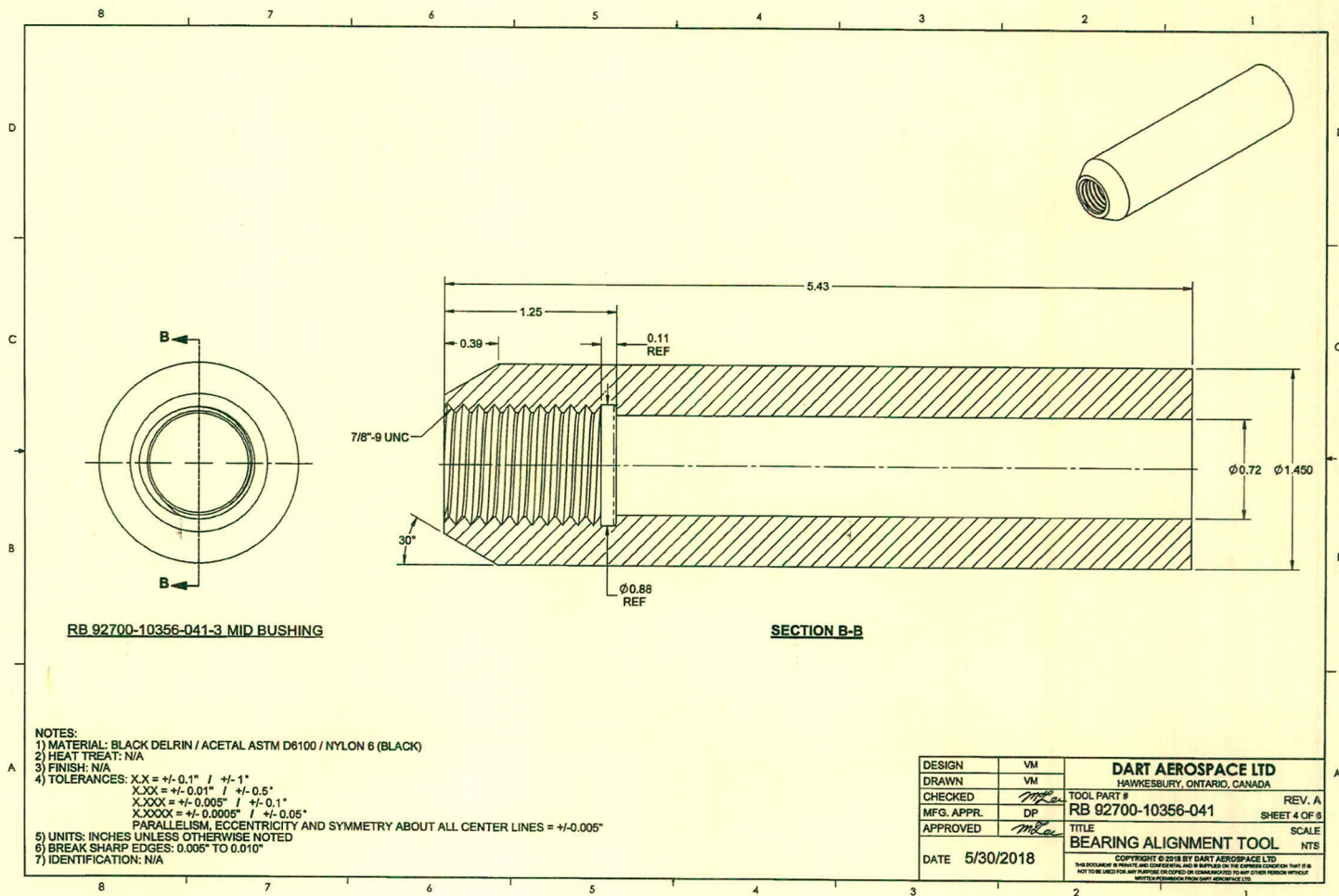
7) IDENTIFICATION: N/A

|            |           |                                                          |              |
|------------|-----------|----------------------------------------------------------|--------------|
| DESIGN     | VM        | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA |              |
| DRAWN      | VM        |                                                          |              |
| CHECKED    | <i>MB</i> | TOOL PART #                                              | REV. A       |
| MFG. APPR. | DP        | RB 92700-10356-041                                       | SHEET 3 OF 6 |
| APPROVED   | <i>MB</i> | TITLE                                                    | SCALE        |
| DATE       | 5/30/2018 | BEARING ALIGNMENT TOOL                                   | NTS          |

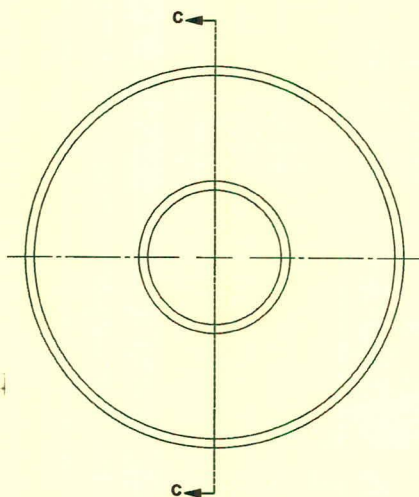
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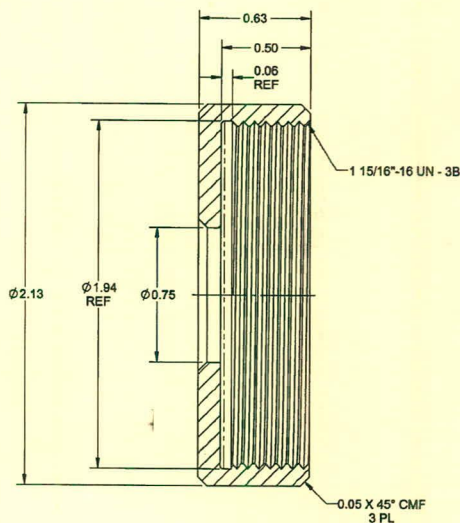




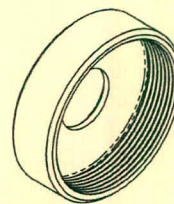




RB 92700-10356-041-4 RING



SECTION C-C



NOTES:

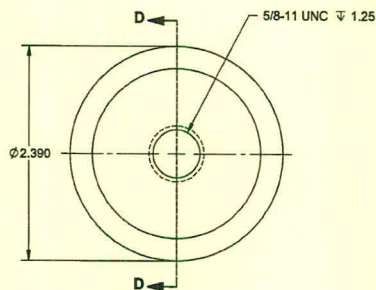
- 1) MATERIAL: 6061-T6 / 7075-T6
- 2) HEAT TREAT: N/A
- 3) FINISH: ANODIZE RED PER MIL-A-8625 TYPE 2 CLASS 2
- 4) TOLERANCES: X.X =  $\pm 0.01$ " /  $\pm 0.1$ "  
X.XX =  $\pm 0.01$ " /  $\pm 0.5$ "  
X.XXX =  $\pm 0.005$ " /  $\pm 0.1$ "  
X.XXXX =  $\pm 0.0005$ " /  $\pm 0.05$ "  
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES =  $\pm 0.005$ "
- 5) UNITS: INCHES UNLESS OTHERWISE NOTED
- 6) BREAK SHARP EDGES: 0.005" TO 0.010"
- 7) IDENTIFICATION: N/A

|            |           |                             |              |
|------------|-----------|-----------------------------|--------------|
| DESIGN     | VM        | <b>DART AEROSPACE LTD</b>   |              |
| DRAWN      | VM        | HAWKESBURY, ONTARIO, CANADA |              |
| CHECKED    | <i>MP</i> | TOOL PART #                 | REV. A       |
| MFG. APPR. | DP        | RB 92700-10356-041          | SHEET 5 OF 8 |
| APPROVED   | <i>MP</i> | TITLE                       | SCALE        |
| DATE       | 5/30/2018 | BEARING ALIGNMENT TOOL      | NTS          |

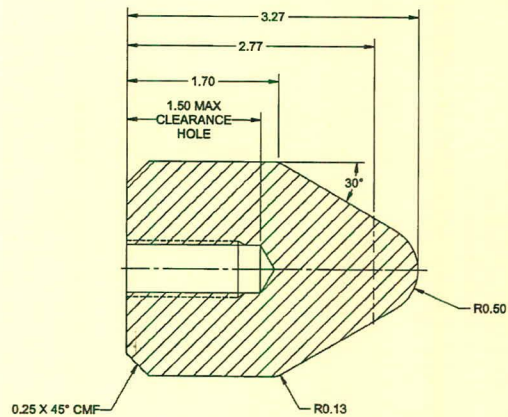
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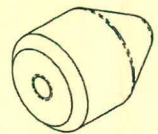




RB 92700-10356-041-5 TIP



SECTION D-D



- NOTES:
- 1) MATERIAL: BLACK DELRIN / ACETAL ASTM D6100 / NYLON 6 (BLACK)
  - 2) HEAT TREAT: N/A
  - 3) FINISH: N/A
  - 4) TOLERANCES: X.X =  $\pm 0.1"$  /  $\pm 1"$   
 X.XX =  $\pm 0.01"$  /  $\pm 0.5"$   
 X.XXX =  $\pm 0.005"$  /  $\pm 0.1"$   
 X.XXXX =  $\pm 0.0005"$  /  $\pm 0.05"$   
 PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES =  $\pm 0.005"$
  - 5) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 6) BREAK SHARP EDGES: 0.005" TO 0.010"
  - 7) IDENTIFICATION: N/A

|           |           |                             |              |
|-----------|-----------|-----------------------------|--------------|
| DESIGN    | VM        | DART AEROSPACE LTD          |              |
| DRAWN     | VM        | HAWKESBURY, ONTARIO, CANADA |              |
| CHECKED   | DP        | TOOL PART #                 | REV. A       |
| MFG. APPR | DP        | RB 92700-10356-041          | SHEET 6 OF 6 |
| APPROVED  | DP        | TITLE                       | SCALE        |
| DATE      | 5/30/2018 | BEARING ALIGNMENT TOOL      | NTS          |

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Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO041341**

**Supplier:** ARR002-VU  
Arrow Tech Machine Works  
29751 E. Enid Road,  
Unit C  
Eugene, OR 97402 USA  
Phone: 541-780-6938  
Fax: 458-215-4938

**PO No:** PO041341  
**PO Date:** 10/12/18  
**Due Date:** 12/14/18  
**Purchase Order**  
**Revision:**  
**Revision Date:**  
**Ship-To Contact:** Phone:

**Ship To:**

**Pynt Terms:** Net 30  
**Freight Terms:**  
**Special Comments:**

*Revision*

| Items               |        |                                      |                  |         |                                                           |        |         |          |                |                   |         |                  |                |
|---------------------|--------|--------------------------------------|------------------|---------|-----------------------------------------------------------|--------|---------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item           | Job    | Part                                 | Supplier Part No | Item No | Description                                               | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (USD) | Extended Price |
| 1                   |        | RB<br>92700-<br>10333-<br>041-<br>4P |                  |         | Engine<br>Drive Shaft<br>Removal<br>Tool Assy<br>REV A    | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$1,450.00/Ea    | \$4,350.00     |
| Line Item Note SIOP |        |                                      |                  |         |                                                           |        |         |          |                |                   |         |                  |                |
| 2                   | 185583 | RB<br>92700-<br>10300-<br>041-<br>1P |                  |         | Seal<br>Installation<br>Tool<br>REV A                     | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$1,098.00/Ea    | \$3,294.00     |
| Line Item Note SIOP |        |                                      |                  |         |                                                           |        |         |          |                |                   |         |                  |                |
| 3                   | 185584 | RB<br>92700-<br>10328-<br>041P       |                  |         | Sight Gage<br>Removal<br>Tool<br>REV A                    | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$627.00/Ea      | \$1,881.00     |
| Line Item Note SIOP |        |                                      |                  |         |                                                           |        |         |          |                |                   |         |                  |                |
| 4                   | 185585 | RB<br>92700-<br>10308-<br>041-<br>4P |                  |         | Input<br>Module<br>Seal<br>Installer<br>Assembly<br>REV A | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$1,856.00/Ea    | \$5,568.00     |
| Line Item Note SIOP |        |                                      |                  |         |                                                           |        |         |          |                |                   |         |                  |                |
| 5                   | 185613 | RB<br>92700-<br>10750-<br>101P       |                  |         | Torque<br>Adapter<br>REV A                                | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$233.00/Ea      | \$699.00       |
| Line Item Note SIOP |        |                                      |                  |         |                                                           |        |         |          |                |                   |         |                  |                |
| 6                   | 185614 | RB<br>92700-<br>10750-<br>102P       |                  |         | Input<br>Module<br>Wrench<br>REV A                        | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$145.00/Ea      | \$435.00       |
| Line Item Note SIOP |        |                                      |                  |         |                                                           |        |         |          |                |                   |         |                  |                |







Dart Aerospace Ltd.  
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# PURCHASE ORDER

## PO041341

| Items               |        |                          |                  |         |                                                              |        |         |                                        |                |                   |         |                  |                |
|---------------------|--------|--------------------------|------------------|---------|--------------------------------------------------------------|--------|---------|----------------------------------------|----------------|-------------------|---------|------------------|----------------|
| Line Item           | Job    | Part                     | Supplier Part No | Item No | Description                                                  | Status | Account | Due Date                               | Order Quantity | Received Quantity | Balance | Unit Price (USD) | Extended Price |
| 7                   | 185615 | RB<br>92700-10314-101P   |                  |         | Torque Reactor REV A                                         | Firmed | -       | 12/21/18<br>DEC 20 2018<br>DEC 19 2018 | 3 Ea           | 0 Ea              | 3 Ea    | \$264.75/Ea      | \$794.25       |
| Line Item Note SIOP |        |                          |                  |         |                                                              |        |         |                                        |                |                   |         |                  |                |
| 8                   | 185619 | RB<br>92700-10350-041-5P |                  |         | Seal Remover Assembly REV A                                  | Firmed | -       | 12/21/18                               | 3 Ea           | 0 Ea              | 3 Ea    | \$1,801.00/Ea    | \$5,403.00     |
| Line Item Note SIOP |        |                          |                  |         |                                                              |        |         |                                        |                |                   |         |                  |                |
| 9                   | 185620 | RB<br>92700-10309-042P   |                  |         | Tail Blade Wrench (De-Ice) Weldment Assembly REV A           | Firmed | -       | 12/21/18                               | 3 Ea           | 0 Ea              | 3 Ea    | \$745.00/Ea      | \$2,235.00     |
| Line Item Note SIOP |        |                          |                  |         |                                                              |        |         |                                        |                |                   |         |                  |                |
| 10                  | 185621 | RB<br>92700-10307-041P   |                  |         | TR Nut Wrench REV A                                          | Firmed | -       | 12/21/18                               | 2 Ea           | 0 Ea              | 2 Ea    | \$1,694.00/Ea    | \$3,388.00     |
| Line Item Note SIOP |        |                          |                  |         |                                                              |        |         |                                        |                |                   |         |                  |                |
| 11                  | 185622 | RB<br>92700-10301-041P   |                  |         | Pitch Beam Puller REV A                                      | Firmed | -       | 12/21/18                               | 3 Ea           | 0 Ea              | 3 Ea    | \$0.01/Ea        | \$0.03         |
| Line Item Note SIOP |        |                          |                  |         |                                                              |        |         |                                        |                |                   |         |                  |                |
| 12                  | 185623 | RB<br>92700-10329-041-4P |                  |         | Removal Tool Assembly REV A                                  | Firmed | -       | 12/21/18                               | 3 Ea           | 0 Ea              | 3 Ea    | \$1,543.00/Ea    | \$4,629.00     |
| Line Item Note SIOP |        |                          |                  |         |                                                              |        |         |                                        |                |                   |         |                  |                |
| 13                  | 185626 | RB<br>92700-10340-101P   |                  |         | Bearing Spanner Wrench REV A                                 | Firmed | -       | 12/21/18                               | 3 Ea           | 0 Ea              | 3 Ea    | \$436.00/Ea      | \$1,308.00     |
| Line Item Note SIOP |        |                          |                  |         |                                                              |        |         |                                        |                |                   |         |                  |                |
| 14                  | 185627 | RB<br>92700-10305-041-4P |                  |         | Tail Gear Box & Input Gear Box Seal Installer Assembly REV A | Firmed | -       | 12/21/18                               | 3 Ea           | 0 Ea              | 3 Ea    | \$1,180.00/Ea    | \$3,540.00     |
| Line Item Note SIOP |        |                          |                  |         |                                                              |        |         |                                        |                |                   |         |                  |                |







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K6A 1K7  
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# PURCHASE ORDER

## PO041341

| Items                                                                                              |        |                        |                  |         |                                   |        |         |          |                |                   |         |                  |                |
|----------------------------------------------------------------------------------------------------|--------|------------------------|------------------|---------|-----------------------------------|--------|---------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item                                                                                          | Job    | Part                   | Supplier Part No | Item No | Description                       | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (USD) | Extended Price |
| 15                                                                                                 | 185628 | RB 92700-10356-041P    |                  |         | Bearing Alignment Tool REV A      | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$967.00/Ea      | \$2,901.00     |
| 3 X DEC 20 2018  |        |                        |                  |         |                                   |        |         |          |                |                   |         |                  |                |
| Line Item Note SIOP                                                                                |        |                        |                  |         |                                   |        |         |          |                |                   |         |                  |                |
| 16                                                                                                 | 185663 | RB 92700-10334-042P    |                  |         | Engine Lifting Sling REV A        | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$0.01/Ea        | \$0.03         |
| Line Item Note SIOP                                                                                |        |                        |                  |         |                                   |        |         |          |                |                   |         |                  |                |
| 17                                                                                                 | 185665 | RB 92700-10355-101P    |                  |         | Torque Adapter REV A              | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$1,448.00/Ea    | \$4,344.00     |
| Line Item Note SIOP                                                                                |        |                        |                  |         |                                   |        |         |          |                |                   |         |                  |                |
| 18                                                                                                 | 185616 | RB 92700-10349-041-5P  |                  |         | Handle Assembly REV A5            | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$998.00/Ea      | \$2,994.00     |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10349-041                                           |        |                        |                  |         |                                   |        |         |          |                |                   |         |                  |                |
| 19                                                                                                 | 185617 | RB 92700-10349-041-8P  |                  |         | Seal Case Remover Assembly REV A5 | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$998.00/Ea      | \$2,994.00     |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10349-041                                           |        |                        |                  |         |                                   |        |         |          |                |                   |         |                  |                |
| 20                                                                                                 | 185618 | RB 92700-10349-041-12P |                  |         | Seal Ring Remover Assembly        | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$998.00/Ea      | \$2,994.00     |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10349-041                                           |        |                        |                  |         |                                   |        |         |          |                |                   |         |                  |                |
| 21                                                                                                 | 185624 | RB 92700-10303-041-4P  |                  |         | Plate Assembly REV A              | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$1,268.50/Ea    | \$3,805.50     |
| Line Item Note SUB ASSY FOR TOP LEVER RB 92700-10303-041                                           |        |                        |                  |         |                                   |        |         |          |                |                   |         |                  |                |
| 22                                                                                                 | 185625 | RB 92700-10303-041-6P  |                  |         | Wrench Assembly REV A             | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$1,268.50/Ea    | \$3,805.50     |
| Line Item Note SUB ASSY FOR TOP LEVER RB 92700-10303-041                                           |        |                        |                  |         |                                   |        |         |          |                |                   |         |                  |                |
| 23                                                                                                 | 185629 | RB 92700-10400-041-6P  |                  |         | Rig Plate Screw REV A             | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041                                           |        |                        |                  |         |                                   |        |         |          |                |                   |         |                  |                |







Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER

## PO041341

| Items                                                    |        |                        |                  |         |                                |        |         |          |                |                   |         |                  |                |
|----------------------------------------------------------|--------|------------------------|------------------|---------|--------------------------------|--------|---------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item                                                | Job    | Part                   | Supplier Part No | Item No | Description                    | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (USD) | Extended Price |
| 24                                                       | 185633 | RB 92700-10400-041-7P  |                  |         | Pitch Stop Gauge REV A         | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                                |        |         |          |                |                   |         |                  |                |
| 25                                                       | 185634 | RB 92700-10400-041-9P  |                  |         | Rig Gauge Plate (Spares) REV A | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                                |        |         |          |                |                   |         |                  |                |
| 26                                                       | 185636 | RB 92700-10400-041-11P |                  |         | TRS Left Stop Gauge REV A      | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                                |        |         |          |                |                   |         |                  |                |
| 27                                                       | 185638 | RB 92700-10400-041-12P |                  |         | RH Mid Gauge REV A             | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                                |        |         |          |                |                   |         |                  |                |
| 28                                                       | 185639 | RB 92700-10400-041-13P |                  |         | TR Mid Block REV A             | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                                |        |         |          |                |                   |         |                  |                |
| 29                                                       | 185640 | RB 92700-10400-041-14P |                  |         | Roll Stop Gauge REV A          | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                                |        |         |          |                |                   |         |                  |                |
| 30                                                       | 185641 | RB 92700-10400-041-16P |                  |         | Coll Stop Gauge REV A          | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                                |        |         |          |                |                   |         |                  |                |
| 31                                                       | 185642 | RB 92700-10400-041-18P |                  |         | Limiter Gauge REV A            | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                                |        |         |          |                |                   |         |                  |                |
| 32                                                       | 185643 | RB 92700-10400-041-20P |                  |         | LH Mid Gauge REV A             | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |

Plex 12/17/18 2:31 PM dart.Lussier.Patrick







Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER

## PO041341

| Items                                                    |        |                        |                  |         |                         |        |         |          |                |                   |         |                  |                |
|----------------------------------------------------------|--------|------------------------|------------------|---------|-------------------------|--------|---------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item                                                | Job    | Part                   | Supplier Part No | Item No | Description             | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (USD) | Extended Price |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                         |        |         |          |                |                   |         |                  |                |
| 33                                                       | 185644 | RB 92700-10400-041-22P |                  |         | Fwd Mid Gauge REV A     | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                         |        |         |          |                |                   |         |                  |                |
| 34                                                       | 185645 | RB 92700-10400-041-24P |                  |         | RH Mid Gauge REV A      | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                         |        |         |          |                |                   |         |                  |                |
| 35                                                       | 185646 | RB 92700-10400-041-26P |                  |         | Mix Pin P / C / R REV A | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                         |        |         |          |                |                   |         |                  |                |
| 36                                                       | 185647 | RB 92700-10400-041-28P |                  |         | Mix Pin Yaw REV A       | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                         |        |         |          |                |                   |         |                  |                |
| 37                                                       | 185648 | RB 92700-10400-041-30P |                  |         | Rig Pin Assembly REV A  | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                         |        |         |          |                |                   |         |                  |                |
| 38                                                       | 185649 | RB 92700-10400-041-33P |                  |         | Boost Col Low REV A     | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                         |        |         |          |                |                   |         |                  |                |
| 39                                                       | 185650 | RB 92700-10400-041-36P |                  |         | 3.5" Pin Assembly REV A | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                         |        |         |          |                |                   |         |                  |                |
| 40                                                       | 185651 | RB 92700-10400-041-39P |                  |         | 9" Pin Assembly REV A   | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                        |                  |         |                         |        |         |          |                |                   |         |                  |                |







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1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

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# PURCHASE ORDER

## PO041341

| Items                                                    |        |                           |                  |         |                                         |        |         |          |                |                   |         |                  |                |
|----------------------------------------------------------|--------|---------------------------|------------------|---------|-----------------------------------------|--------|---------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item                                                | Job    | Part                      | Supplier Part No | Item No | Description                             | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (USD) | Extended Price |
| 41                                                       | 185652 | RB<br>92700-10400-041-41P |                  |         | 16" Pin Assembly<br>REV A               | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                           |                  |         |                                         |        |         |          |                |                   |         |                  |                |
| 42                                                       | 185654 | RB<br>92700-10400-041-43P |                  |         | Cockpit - Rig Pins<br>REV A             | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                           |                  |         |                                         |        |         |          |                |                   |         |                  |                |
| 43                                                       | 185655 | RB<br>92700-10400-041-45P |                  |         | 5" Pin Assembly<br>REV A                | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                           |                  |         |                                         |        |         |          |                |                   |         |                  |                |
| 44                                                       | 185656 | RB<br>92700-10400-041-49P |                  |         | Boost Mid Pin<br>REV A                  | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                           |                  |         |                                         |        |         |          |                |                   |         |                  |                |
| 45                                                       | 185657 | RB<br>92700-10400-041-52P |                  |         | Rotor Head - Cross Bar<br>REV A         | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                           |                  |         |                                         |        |         |          |                |                   |         |                  |                |
| 46                                                       | 185658 | RB<br>92700-10400-041-63P |                  |         | Cyclic - Rig Block<br>Assembly<br>REV A | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                           |                  |         |                                         |        |         |          |                |                   |         |                  |                |
| 47                                                       | 185659 | RB<br>92700-10400-041-64P |                  |         | Rotor Head - Rig Plate<br>REV A         | Firmed | -       | 12/21/18 | 3 Ea           | 0 Ea              | 3 Ea    | \$213.84/Ea      | \$641.52       |
| Line Item Note SUB ASSY FOR TOP LEVEL RB 92700-10400-041 |        |                           |                  |         |                                         |        |         |          |                |                   |         |                  |                |
| 48                                                       | 187839 | RB<br>92700-10307-041P    |                  |         | TR Nut Wrench<br>REV A                  | Firmed | -       | 12/14/18 | 1 Ea           | 0 Ea              | 1 Ea    | \$1,694.00/Ea    | \$1,694.00     |
| Grand Total:                                             |        |                           |                  |         |                                         |        |         |          |                |                   |         | \$79,094.31      |                |







Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

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## PURCHASE ORDER PO041341

### Order Notes

#### Procurement Quality Clauses

A005 RIGHT OF ENTRY

A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO DART AEROSPACE)

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENT

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

A handwritten signature in black ink, appearing to be "Plex", located to the right of the Terms &amp; Condition text.

Plex 12/17/18 2:31 PM dart.Lussier.Patrick







**PHGE Machineworks dba  
Arrowtech Machineworks**  
29751 E Enid Rd. Unit C  
Eugene, Oregon 97402  
Phone: (541) 780-6938  
Fax: (458) 215-4938

## Packing Slip

NO. 356

PAGE 1 OF 2

Date: 12/14/2018  
PO Ref: 041341 ✓  
Ship via: Fedex Priority

Bill To:  
Dart Aerospace  
1270 Aberdeen St. Hawkesbury, ON  
CANADA K6A 1K7

Ship To:  
Dart Aerospace  
1271 Aberdeen St. Hawkesbury, ON  
CANADA K6A 1K8

| Qty | Item                                | Part No.             |
|-----|-------------------------------------|----------------------|
| 3   | SEAL INSTALLATION TOOL              | RB 92700-10300-041   |
| 3   | PLATE ASSEMBLY                      | RB 92700-10303-041   |
| 3   | WRENCH ASSEMBLY                     | RB 92700-10303-041   |
| 3   | TGB & IGB SEAL INSTALLER ASSEMBLY   | RB 92700-10305-041   |
| 2   | TR NUT WRENCH                       | RB 92700-10307-041   |
| 3   | TAIL BLADE WRENCH (DE-ICE) WELDMENT | RB 92700-10309-042   |
| 3 ✓ | TORQUE REACTOR                      | RB 92700-10314-101 ✓ |
| 3   | SIGHT GUAGE REMOVAL TOOL            | RB 92700-10328-041   |
| 3   | ENGINE DRIVE SHAFT REMOVAL TOOL ASS | RB 92700-10333-041   |
| 3   | BEARING SPANNER WRENCH              | RB 92700-10340-101   |
| 3   | SEAL REMOVAL ASSEMBLY               | RB 92700-10350-041   |
| 3 ✓ | BEARING ALIGNMENT TOOL              | RB 92700-10356-041 ✓ |
| 3   | TORQUE ADAPTER                      | RB 92700-10750-101   |
| 3   | INPUT MODULE WRENCH                 | RB 92700-10750-102   |
| 3   | RIG PLATE SCREW                     | RB 92700-10400-041-6 |
| 3   | PIT STOP GUAGE                      | RB 92700-10400-041-7 |
| 3   | RIG GUAGE PLATE (SPARES)            | RB 92700-10400-041-9 |

DAS  
38  
9-89

Received by: \_\_\_\_\_  
Packaged by: \_\_\_\_\_  
Checked by: \_\_\_\_\_

Thank You





**PHGE Machineworks dba  
Arrowtech Machineworks**  
29751 E Enid Rd. Unit C  
Eugene, Oregon 97402  
Phone: (541) 780-6938  
Fax: (458) 215-4938

## Packing Slip

NO. 356

PAGE 2 OF 3

Date: 12/14/2018  
PO Ref: 041341  
Ship via: Fedex Priority

Bill To:  
Dart Aerospace  
1270 Aberdeen St. Hawkesbury, ON  
CANADA K6A 1K7

Ship To:  
Dart Aerospace  
1271 Aberdeen St. Hawkesbury, ON  
CANADA K6A 1K8

| Qty | Item                | Part No.              |
|-----|---------------------|-----------------------|
| 3   | TRS LEFT STOP GUAGE | RB 92700-10400-041-11 |
| 3   | RH MID GUAGE        | RB 92700-10400-041-12 |
| 3   | TR MID BLOCK        | RB 92700-10400-041-13 |
| 3   | ROLL STOP GUAGE     | RB 92700-10400-041-14 |
| 3   | COLL STOP GUAGE     | RB 92700-10400-041-16 |
| 3   | LIMITER GUAGE       | RB 92700-10400-041-18 |
| 3   | LH MID GUAGE        | RB 92700-10400-041-20 |
| 3   | FWD MID GUAGE       | RB 92700-10400-041-22 |
| 3   | RH MID GUAGE        | RB 92700-10400-041-24 |
| 3   | MIX PIN P / C / R   | RB 92700-10400-041-26 |
| 3   | MIX PIN YAW         | RB 92700-10400-041-28 |
| 3   | RIG PIN ASSEMBLY    | RB 92700-10400-041-30 |
| 3   | BOOST COL LOW       | RB 92700-10400-041-33 |
| 3   | 3.5" PIN ASSEMBLY   | RB 92700-10400-041-36 |
| 3   | 9" PIN ASSEMBLY     | RB 92700-10400-041-39 |
| 3   | 16" PIN ASSEMBLY    | RB 92700-10400-041-41 |
| 3   | COCKPIT - RIG PINS  | RB 92700-10400-041-43 |

Received by: \_\_\_\_\_

Packaged by: Del

Checked by: Q.S.

Thank You







**PHGE Machineworks dba  
Arrowtech Machineworks**  
29751 E Enid Rd. Unit C  
Eugene, Oregon 97402  
Phone: (541) 780-6938  
Fax: (458) 215-4938

## Packing Slip

NO. 356

PAGE 3 OF 3

Date: 12/14/2018  
PO Ref: 041341  
Ship via: Fedex Priority

Bill To:  
Dart Aerospace  
1270 Aberdeen St. Hawkesbury, ON  
CANADA K6A 1K7

Ship To:  
Dart Aerospace  
1271 Aberdeen St. Hawkesbury, ON  
CANADA K6A 1K8

| Qty | Item                        | Part No.              |
|-----|-----------------------------|-----------------------|
| 3   | 5" PIN ASSEMBLY             | RB 92700-10400-041-45 |
| 3   | BOOST MID PIN               | RB 92700-10400-041-49 |
| 3   | ROTOR HEAD - CROSS BAR      | RB 92700-10400-041-52 |
| 3   | CYCLIC - RIG BLOCK ASSEMBLY | RB 92700-10400-041-63 |
| 3   | ROTOR HEAD - RIG PLATE      | RB 92700-10400-041-64 |

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Received by: \_\_\_\_\_

Packaged by: AMP

Checked by: Q.E.

Thank You







**ARROW TECH MACHINE WORKS**

## **Certificate of Conformance**

Your Purchase Order No: 041341 ✓ Dated: 12/14/2018

Our Order / Job No: 041341-15AWT Order Qty: 3 ✓

Part Name: BEARING ALIGNMENT TOOL

Part Number: RB 92700-10356-041

Lot Size: N/A Ship Date: 12/14/2018

We certify that these parts shipped to you are of domestic or international manufacture and conform to all requirements of the Purchase Order. These parts have been manufactured and inspected in accordance with all required specifications, instructions and drawings. Any applicable specifications are listed below:

Drawing Number: RB 92700-10356-041 ✓ Rev: A

Material Size and Type: -1,-4/ 6061-T6 ALUM; -2,-3,-5/BLACK DELRIN

Material Specifications: ALUM: ASTM B209; DELRIN: ASTM D6100

Heat Treatment: N/A

Plating/Finish: RED ANODIZE: MIL-A-8625F, TYPE 2, CLASS 2

**Mercury Contamination:** The material used to process this order has not come in contact with mercury or mercury bearing instruments.

Date: 12/17/18

Signed: 

DAS  
38  
9-89

---

**PHGE Machine Works LLC dba Arrow Tech Machine Works**  
29751 E. Enid Rd. Unit C Eugene, Oregon 97402  
Main: (541) 780-6938 | Fax: (458) 215-4938  
[www.atechmachineworks.com](http://www.atechmachineworks.com)

